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NOTICE OF ALLOWANCE AND FEE(S) DUE

23696 7590 09/24/2010 QUALCOMM INCORPORATED 5775 MOREHOUSE DR. SAN DIEGO, CA 92121 EXAMINER

SMITH, MARCUS

ART UNIT PAPER NUMBER

DATE MAILED: 09/24/2010

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------|------------------|----------------------|---------------------|------------------|
| 10/693,419 | 10/23/2003 | J. Rodney Walton | 020554 | 2594 |
| TITLE OF INVENTION: M | IIMO WLAN SYSTEM | | | |

| APPLN, TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 12/27/2010 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat | form should be used for correspondence including d below or directed oth ions. | or trang the nerwise | nsmitting the ISSU Patent, advance of in Block 1, by (a | JE FEE and PUBLICA' rders and notification of a) specifying a new corr | FION FEE (if requestion of the contract of the | ired). l vill be ; and/o | Blocks 1 through 5 st mailed to the current r (b) indicating a sepa | nould be completed where correspondence address as rate "FEE ADDRESS" for | |
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| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | No Fe pa ba | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. | | | | |
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| QUALCOMM 5775 MOREHO SAN DIEGO, C. | | D | | I b St ad tra | aroby cartify that th | in Good | e of Mailing or Trans: s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the d | mission i deposited with the United t class mail in an envelope above, or being facsimile ate indicated below. | |
| | | | | | | | | (Depositor's name) | |
| | | | | | | | | (Signature) | |
| | | | | | | | | (Date) | |
| APPLICATION NO. | FILING DATE | | | FIRST NAMED INVENTOR | | ATTORNEY DOCKET NO. CONFIRMATION | | CONFIRMATION NO. | |
| 10/693,419 | 10/23/2003 | | • | J. Rodney Walton | | | 020554 | 2594 | |
| TITLE OF INVENTION | MIMO WLAN SYSTE | M | | | | | | | |
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| nonprovisional | NO | | \$1510 | \$300 | \$0 | | \$1810 | 12/27/2010 | |
| EXAM | INER | | ART UNIT | CLASS-SUBCLASS | 7 | | | | |
| SMITH, N | IARCUS | | 2467 | 370-329000 | _ | | | | |
| Change of corresponde CFR 1.363). | nce address or indicatio | n of "F | ee Address" (37 | 2. For printing on the | | | | | |
| | ondence address (or Cha | nge of | Correspondence | (I) the names of up or agents OR, alterna | 3 registered pater ively, | nt attor | | | |
| Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. | | | | (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to | | | | | |
| ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. | | | e of a Customer | 2 registered patent attorneys or agents. If no name is listed, no name will be printed. | | | | | |
| 3. ASSIGNEE NAME A | ND RESIDENCE DATA | A ТО Е | BE PRINTED ON | THE PATENT (print or t | ype) | | | | |
| PLEASE NOTE: Unli recordation as set forth | ess an assignee is ident in 37 CFR 3.11. Comp | ified b | elow, no assignee of this form is NO | data will appear on the T a substitute for filing a | patent. If an assign assignment. | ice is i | lentified below, the de | cument has been filed for | |
| (A) NAME OF ASSIC | | | | (B) RESIDENCE: (CIT | | | | | |
| | | | | | | | | | |
| Please check the appropri | ate assignee category or | catego | ories (will not be pr | inted on the patent): | Individual 🗆 C | orporat | ion or other private gro | up entity 🗖 Government | |
| 4a. The following fee(s) | are submitted: | | 41 | o. Payment of Fee(s): (Ple | ase first reapply a | ny pre | lously paid issue fee | shown above) | |
| Issue Fee | | | | A check is enclosed. | | | | | |
| ☐ Publication Fee (N ☐ Advance Order - # | o small entity discount p | permitte | ed) | ☐ Payment by credit co ☐ The Director is herel | | | | ficiency or credit any | |
| | | | | overpayment, to Dep | osit Account Numb | er | (enclose a | extra copy of this form). | |
| | SMALL ENTITY state | ıs. See | 37 CFR 1.27. | ☐ b. Applicant is no lo | | | | | |
| NOTE: The Issue Fee and interest as shown by the r | Publication Fee (if requeords of the United Sta | uired) tes Pat | will not be accepte ent and Trademark | d from anyone other than Office. | the applicant; a reg | istered | attorney or agent; or th | e assignee or other party in | |
| | | | | | | | | | |
| Authorized Signature | | | | | | | | | |
| Typed or printed name | | | | Registration N | | | | | |
| This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu- irginia 22313-1450. DC 13-1450. | FR 1.3 U.S.C USPT den, sl NOT | 311. The information 122 and 37 CFR 122 and 37 CFR 10. Time will vary hould be sent to the SEND FEES OR | on is required to obtain or 1.14. This collection is e depending upon the ind e Chief Information Offi COMPLETED FORMS | retain a benefit by stimated to take 12 tvidual case. Any co cer, U.S. Patent and TO THIS ADDRES: | the pub minute ommen Trader S. SEN | lic which is to file (and to complete, including is on the amount of tit nark Office, U.S. Depo D TO: Commissioner | by the USPTO to process) g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450, | |

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| 10/693,419 | 10/2 | 3/2003 | J. Rodney Walton | 020554 | 2594 | |
| 23696 | 7590 | 09/24/2010 | | EXAM | IINER | |
| QUALCOMM INCORPORATED | | | | SMITH, MARCUS | | |
| 5775 MOREHO | | | | ART UNIT | PAPER NUMBER | |
| SAN DIEGO, CA 92121 | | | | 2467 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1081 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1081 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

| Application No. | Applicant(s) | _ |
|-----------------|---------------|---|
| 10/693,419 | WALTON ET AL. | |
| Examiner | Art Unit | _ |
| MARCUS B. SMITH | 2467 | |

| The MAILING DATE of this communication appears on the cover sheet with the correspondence address |
|--|
| All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included |
| herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS |
| NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative |
| of the Office or upon petition by the applicant. See 37 CFR 1,313 and MPEP 1308. |

- This communication is responsive to amendment filed 8/04/10.
- 2. X The allowed claim(s) is/are 116-119, 122-124, 225-227, 229-236, 121, 228, 237-240, 242-247 (resp. renumbered claims 1-30).
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 - 1. Certified copies of the priority documents have been received.
 - Certified copies of the priority documents have been received in Application No.
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date ____.

 (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. T Examiner's Amendment/Comment
- 8. Examiner's Statement of Reasons for Allowance
- Other _____.

/Pankai Kumar/

Supervisory Patent Examiner, Art Unit 2467